

What is claimed is:

1. A water-soluble natural film composition containing chitosan, which comprises:
 - (a) 20-99.98 wt% of water-soluble chitosan with enhanced immunity prepared in such a manner that chitin/chitosan decomposed with lysozyme is sonicated in a saline solution and is subjected to ion-exchange to obtain water-soluble β -glucosamine fibrin followed by nanocoating said β -glucosamine fibrin with γ -globulin as an immune protein;
 - (b) 0.01-75 wt% of at least one seaweeds selected from the group consisting of *Gelidium amansii*, jellyfish, brown seaweed, tangle and their extracts; and
 - (c) 0.01-30 wt% of at least one functional ingredients selected from the group consisting of γ -globulin, cholic acid, astaxanthin, rutin, lecithin, *Inula helenium* L., cellulose and collagen.
2. The composition according to claim 1, wherein said water-soluble chitosan has a molecular weight of 10,000 to 1,000,000 Da.
3. A method for preparing water-soluble natural film containing chitosan, which comprises the steps of:
 - (a) preparing water-soluble chitosan with enhanced immunity prepared in such a manner that chitin/chitosan decomposed with lysozyme is sonicated in a saline solution and is subjected to ion-exchange to obtain water-soluble β -glucosamine fibrin followed by nanocoating said β -glucosamine fibrin with γ -globulin as an immune protein;
 - (b) preparing a gel with a concentration of 0.001 to 70% by dissolving in distilled water 20-99.98 wt% of said water-soluble chitosan with enhanced immunity; 0.01-75 wt% of at least one seaweeds selected from the group consisting of *Gelidium amansii*, jellyfish, brown seaweed,

tangle and their extracts; and 0.01-30 wt% of at least one functional ingredients selected from the group consisting of γ -globulin, cholic acid, astaxanthin, rutin, lecithin, *Inula helenium* L., cellulose and collagen;

(c) curing said gel prepared in the step of (b), whereby said gel shows a viscosity of 10 to 150 cps;

(d) hardening said gel cured in the step of (c) with ethanol of 95-99.9 wt% and glutaraldehyde of 0.1-5 wt%; and

(e) compression-molding said hardened gel in the step of (d) or spraying said hardened gel on one side or both sides of biodegradable film or conventional film, followed by drying.

4. A water-soluble natural film containing chitosan as an oral cleaning agent, wherein said film is prepared by processing the water-soluble natural film composition of claim 1.

5. A water-soluble natural film containing chitosan for packaging material with antibiotic potential, wherein said packaging material is prepared by coating one side or both sides of a biodegradable film or conventional film with the water-soluble natural film composition of claim 1.